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Class 345 COMPUTER GRAPHICS PROCESSING, OPERATOR INTERFACE PROCESSING, AND SELECTIVE VISUAL DISPLAY SYSTEMS

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<u>418</u>	COMPUTER GRAPHICS PROCESSING
<u>419</u>	. Three-dimension
<u>420</u>	.. Solid modelling
<u>421</u>	... Hidden line/surface determining
<u>422</u>	... Z buffer (depth buffer)
<u>423</u>	.. Tessellation
<u>424</u>	.. Voxel
<u>426</u>	.. Lighting/shading
<u>427</u>	.. Space transformation
<u>428</u>	. Adjusting level of detail
<u>581</u>	. Attributes (surface detail or characteristic, display attributes)
<u>582</u>	.. Texture
<u>583</u>	... Solid Texture
<u>584</u>	... Bump map
<u>585</u>	... Non-planar surface
<u>586</u>	... Mathematically defined
<u>587</u>	... MIP map
<u>588</u>	... Repeating pattern
<u>589</u>	.. Color or intensity
<u>590</u>	... Gamut clipping or adjustment
<u>591</u>	... Color processing in perceptual color space
<u>592</u>	... Transparency (mixing color values)
<u>593</u>	... Color selection
<u>594</u>	.... Using GUI
<u>595</u>	.... Expert system or AI
<u>596</u>	... Dither or halftone
<u>597</u>	.... Color
<u>598</u>	..... Spatial
<u>599</u>	.... Spatial
<u>600</u>	... Color bit data modification or conversion
<u>601</u>	.... Using look up table
<u>602</u>	..... Plural look up tables
<u>603</u>	.... Format change (e.g., NTSC to RGB, RGB to composite, XYZ to RGB)
<u>604</u>	.... Color space transformation (e.g., RGB to YUV)
<u>605</u>	.... Change in number of bits for a designated color (e.g., 4 bits to 8 bits, 8 bits to 4 bits)
<u>606</u>	.. Interpolation of attribute values across object surface
<u>607</u>	... In perspective
<u>608</u>	... Tri-linear
<u>609</u>	... Bi-linear
<u>610</u>	... Linear
<u>611</u>	.. Anti-aliasing or image smoothing
<u>612</u>	... Save attributes for each object affecting a given pixel
<u>613</u>	... Subpixel processing
<u>614</u>	... Pixel fragment

<u>615</u>	... Convolution technique
<u>616</u>	... Error diffusion
<u>617</u>	.. Contrast
<u>618</u>	.. Image with abnormal condition
<u>619</u>	. Graphic manipulation (object processing or display attributes)
<u>620</u>	.. Clipping
<u>621</u>	... Based on model of objects
<u>622</u>	.... Testing or using bounding shape (e.g., bounding box sphere)
<u>623</u>	.... Object clipped to view volume
<u>624</u>	.... Object clipped to another object
<u>625</u>	... Based on image data
<u>626</u>	.... Masking
<u>627</u>	.... Non-rectangular array
<u>628</u>	.... Rectangular region
<u>629</u>	.. Merge or overlay
<u>630</u>	... Combining model representations
<u>631</u>	... Reducing redundancy
<u>632</u>	... Placing generated data in real scene
<u>633</u>	.... Augmented reality (real-time)
<u>634</u>	... Image based
<u>635</u>	.... Non-overlapping
<u>636</u>	.... Character and graphics
<u>637</u>	.... Priority based
<u>638</u>	.... Insertion of bitmapped moving picture
<u>639</u>	.... Weighted
<u>640</u>	..... Weights vary across image (e.g., transition from foreground to background)
<u>641</u>	.... Fixed overlay pattern
<u>642</u>	.. Picking
<u>643</u>	.. Arithmetic processing of image data
<u>644</u>	... Matrix calculations
<u>645</u>	... Hierarchy of transformations (e.g., hierarchy of global and local coordinate)
<u>646</u>	.. Morphing
<u>647</u>	.. Distortion
<u>648</u>	.. Affine
<u>649</u>	.. Rotation
<u>650</u>	... Graphical user interface tools
<u>651</u>	.... Alignment functions (e.g., snapping, gravity)
<u>652</u>	.... Constrained manipulations (e.g., movement in less than all dimensions)
<u>653</u>	.... 3D manipulations
<u>654</u>	.... 2D manipulations
<u>655</u>	... Object based
<u>656</u>	... Image based (addressing)
<u>657</u>	.... By arbitrary angle
<u>658</u>	.... By 90 degrees increment
<u>659</u>	.... Image rotates in response to display device orientation
<u>660</u>	.. Scaling
<u>661</u>	... Graphical user interface tools
<u>662</u>	.... Alignment functions (e.g., snapping, gravity)
<u>663</u>	.... Constrained manipulations (i.e., movement in less than all dimensions)
<u>664</u>	.... 3D manipulations
<u>665</u>	.... 2D manipulations
<u>666</u>	... Object based
<u>667</u>	... Image based (addressing)
<u>668</u>	.... By arbitrary ratio
<u>669</u>	.... By integer multiples
<u>670</u>	.... Reduction only
<u>671</u>	.... Enlargement only
<u>672</u>	.. Translation

<u>673</u>	... Averaging technique
<u>674</u>	... Copying data to create additional rows or columns
<u>676</u>	... Graphical user interface tools
<u>677</u>	.... Alignment functions (e.g., snapping, gravity)
<u>678</u>	.... Constrained manipulations (i.e., movement in less than all dimensions)
<u>679</u>	.... 3D manipulations
<u>680</u>	.... 2D manipulations
<u>681</u>	... Object based
<u>682</u>	... Image based (addressing)
<u>683</u>	.... Sprite
<u>684</u>	.... Scrolling
<u>685</u>	..... Alphanumeric
<u>686</u>	..... Memory addressing
<u>687</u>	..... Smooth or continuous
<u>688</u>	..... Attribute changes during scrolling
<u>689</u>	.. Textual entry or display of manipulation information (e.g., enter or display degree of rotation)
<u>440</u>	. Graph generating
<u>440.1</u>	.. Real-time waveform display
<u>440.2</u>	.. Bar graph
<u>441</u>	. Shape generating
<u>442</u>	.. Curve
<u>443</u>	.. Straight line
<u>467</u>	. Character generating
<u>468</u>	.. Character geometry processing
<u>469</u>	... Character generation using control points or hints
<u>469.1</u>	.. Character border
<u>470</u>	.. Generating character fill data from outline data
<u>471</u>	.. Alteration of stored font
<u>472</u>	... Scaling
<u>472.1</u>	.... Reduction only
<u>472.2</u>	.... Enlargement only
<u>472.3</u>	.. Calligraphic
<u>473</u>	. Animation
<u>474</u>	.. Motion planning or control
<u>475</u>	.. Temporal interpolation or processing
<u>700</u>	OPERATOR INTERFACE (E.G., GRAPHICAL USER INTERFACE)
<u>701</u>	. Force feedback interaction
<u>702</u>	. Tactile based interaction
<u>703</u>	. Cultural based (including language, time, monetary units displayed)
<u>704</u>	. Playback of recorded user events (e.g., script or macro playback)
<u>705</u>	. Help presentation
<u>706</u>	.. Virtual character or avatar (e.g., animated person)
<u>707</u>	.. Adaptive to user skill level
<u>708</u>	.. Context sensitive
<u>709</u>	... Coaching (e.g., animated examples, or handholding or show me execution)
<u>710</u>	... Input alert
<u>711</u>	... Tool tip (e.g., cursor position based)
<u>712</u>	... Topic roadmap or index
<u>713</u>	.... Hierarchical
<u>714</u>	.. Combining diverse help information (e.g., different sources)
<u>715</u>	.. Balloon or bubble appearance

- 716 . On screen video or audio system interface
- 717 .. Multiple diverse systems
- 718 ... Mode switching interface (e.g., switching between TV and computer)
- 719 .. Video interface
- 720 ... Video traversal control
- 721 ... Indexed control
- 722 ... Video parameter control
- 723 .. For video segment editing or sequencing
- 724 ... Cut and paste operation
- 725 ... Trimming
- 726 ... Effects or transitions interface
- 727 . Audio user interface
- 728 .. Audio input for on-screen manipulation (e.g., voice controlled GUI)
- 729 .. For a visually challenged user
- 730 . Presentation to audience interface (e.g., slide show)
- 731 .. Authoring tool
- 732 .. Slide manipulating or editing
- 733 . For plural users or sites (e.g., network)
- 734 .. Interactive network representation of devices (e.g., topology of workstations)
- 735 ... Configuration
- 736 ... Network managing or monitoring status
- 737 ... User navigation between devices
- 738 .. Network resource browsing or navigating
- 739 ... Selecting from a resource list (e.g., address book)
- 740 .. Remote operation of computing device
- 741 .. Access control or permission
- 742 ... Interactive portal (e.g., secure point of access)
- 743 ... Access rights to interactive controls
- 744 .. Interface customization or adaption (e.g., client server)
- 745 ... Based on stored usage or user profile (e.g., frequency of use, cookies)
- 746 ... Interface conversion
- 747 ... End user based (e.g., preference setting)
- 748 . User interactive multicomputer data transfer (e.g., file transfer)
- 749 .. Downloading remote executables (e.g., Java, CGI)
- 750 . Multiple users on a single workstation
- 751 . Computer supported collaborative work between plural users
- 752 .. Interactive email
- 753 .. Computer conferencing
- 754 ... Multicursor (e.g., multiple on-screen pointers)
- 755 ... Floor Control
- 756 ... Real Time Video
- 757 ... Virtual 3D environment
- 758 ... Chat room
- 759 .. Group window
- 760 . Mark up language interface (e.g., HTML)
- 761 . Plural adjacent interactive display devices
- 762 . User interface development (e.g., GUI builder)
- 763 .. Graphical or iconic based (e.g., visual program)
- 764 . On-screen workspace or object
- 765 .. Customizing multiple diverse workspace objects
- 766 .. Z order of multiple diverse workspace objects
- 767 .. Focus control of multiple diverse workspace objects
- 768 .. Translucency or transparency interface element (e.g., invisible control)
- 769 .. Data transfer operation between objects (e.g., drag and drop)
- 770 ... Cut and paste
- 771 .. Instrumentation and component modeling (e.g., interactive control panel, virtual device)
- 772 ... Progress or activity indicator

<u>773</u>	... Virtual input device (e.g., virtual keyboard)
<u>774</u>	.. Ticker metaphor
<u>775</u>	.. Office layout metaphor (e.g., filing cabinet, desk)
<u>776</u>	.. Indexed book or notebook metaphor
<u>777</u>	.. Tab metaphor (e.g., property sheet)
<u>778</u>	.. Multiple virtual screen or desktop switching
<u>779</u>	.. Task bar or desktop control panel
<u>780</u>	.. Entry field (e.g., text entry field)
<u>781</u>	.. Window or viewpoint
<u>782</u>	... 3D Perspective view of window layout
<u>783</u>	... On-screen window list or index
<u>784</u>	... Window scrolling
<u>785</u>	.... Autoscroll
<u>786</u>	.... Scroll tool (e.g., scroll bar)
<u>787</u>	..... With content attributes on scroll tool
<u>788</u>	... Layout modification (e.g., move or resize)
<u>789</u>	.... Based on usage or user profile (e.g., frequency of use)
<u>790</u>	.... Overlap control
<u>791</u>	..... Always on top
<u>792</u>	..... Tiling or split pane
<u>793</u>	..... Cascading
<u>794</u>	..... Priority or overlap change (e.g., z-order)
<u>795</u>	..... Minimizing or send to bottom
<u>796</u>	..... Bring to top
<u>797</u>	..... Viewing lower priority windows (e.g., overlapped windows)
<u>798</u>	... Combining moving and resizing operations (e.g., moving causes resizing)
<u>799</u>	... Moving (e.g., translating)
<u>800</u>	... Resizing (e.g., scaling)
<u>801</u>	.... Contained object scale change
<u>802</u>	... Focus control
<u>803</u>	... Window differentiation
<u>804</u>	... Interwindow link or communication
<u>805</u>	.... On-screen link or communication (e.g., cue)
<u>806</u>	... Window memory structure
<u>807</u>	.... Stored priority attribute
<u>808</u>	.. Pop-up control
<u>809</u>	.. Dialog box
<u>810</u>	.. Menu or selectable iconic array (e.g., palette)
<u>811</u>	... Based on usage or user profile (e.g., frequency of use)
<u>812</u>	.... Preselection (e.g., best guess before mouse click)
<u>813</u>	.... Default selection item
<u>814</u>	... Limited time selection opportunity
<u>815</u>	... Sizing modification (e.g., scaling)
<u>816</u>	... Partial input lookup (e.g., partial string lookup)
<u>817</u>	... Context location indication (e.g., previous or next menu item indication)
<u>818</u>	.... Simultaneous next and previous indication (e.g., menu road map)
<u>819</u>	.... Next menu indication
<u>820</u>	.... Previous menu indication
<u>821</u>	... Emphasis
<u>822</u>	.... Preselection emphasis
<u>823</u>	.... Selection or confirmation emphasis
<u>824</u>	.... Unavailable emphasis
<u>825</u>	... Dynamically generated menu items
<u>826</u>	... Add on item (e.g., software developed, customized)
<u>827</u>	... Mnemonic (e.g., accelerator key)
<u>828</u>	... Partial menu display (e.g., one menu item at a time)
<u>829</u>	.... Advancing to next menu item in the same menu
<u>830</u>	..... Scrolling (e.g., spin dial)

<u>831</u>	.... With specific input device
<u>832</u>	... Analog selection style
<u>833</u>	... Slider control
<u>834</u>	... Radial based (e.g., radial or pie menu)
<u>835</u>	... Selectable iconic array
<u>836</u>	.... 3D icons
<u>837</u>	.... Compound or aggregate icon
<u>838</u>	.... Thumbnail or scaled image
<u>839</u>	.... Imitating real life object
<u>840</u>	... Using button array
<u>841</u>	... Sub-menu structure
<u>842</u>	.... Tear off
<u>843</u>	.... Pull down
<u>844</u>	... Timed
<u>845</u>	... Multiple selections in a single menu
<u>846</u>	.. Non-array icons
<u>847</u>	... Shortcut
<u>848</u>	.. Interface represented by 3D space
<u>849</u>	... Individual object
<u>850</u>	... Navigation within 3D space
<u>851</u>	.... On-screen navigation control
<u>852</u>	... Picking 3D objects
<u>853</u>	.. Hierarchy or network structure
<u>854</u>	... Navigation within structure
<u>855</u>	.... On-screen roadmap or index
<u>856</u>	.. Cursor
<u>857</u>	... Pointer direction adjustment
<u>858</u>	... Automatic position adjustment
<u>859</u>	... Status indicator
<u>860</u>	.... Selection emphasis
<u>861</u>	.... Dynamically changed appearance (e.g., animated or live action)
<u>862</u>	... Proximity detection
<u>863</u>	. Gesture-based
<u>864</u>	. For a small display screen (e.g., personal digital assistant, palm-top)
<u>865</u>	. Miscellaneous interface for the handicapped or disabled user
<u>866</u>	. Miscellaneous customization or adaptation
<u>867</u>	SCREEN SAVER DISPLAY
<u>156</u>	DISPLAY PERIPHERAL INTERFACE INPUT DEVICE
<u>157</u>	. Cursor mark position control device
<u>158</u>	.. Including orientation sensors (e.g., infrared, ultrasonic, remotely controlled)
<u>159</u>	.. Having variable cursor speed
<u>160</u>	.. Cursor key
<u>161</u>	.. Joystick
<u>162</u>	.. Positional storage means
<u>163</u>	.. Mouse
<u>164</u>	... Rotatable ball detector
<u>165</u>	.... Photosensor encoder
<u>166</u>	... Optical detector
<u>167</u>	.. Trackball
<u>168</u>	. Including keyboard
<u>169</u>	.. Portable (i.e., handheld, calculator, remote controller)
<u>170</u>	.. Light source associated with each key
<u>171</u>	.. Having foreign language capability (e.g., Japanese, Chinese)
<u>172</u>	.. Having programmable function key
<u>173</u>	. Touch panel
<u>174</u>	.. Including impedance detection
<u>175</u>	.. Including optical detection
<u>176</u>	.. Transparent substrate having light entrapment capability (i.e., waveguides)

<u>177</u>	.. Including surface acoustic detection
<u>178</u>	.. With alignment or calibration capability (i.e., parallax problem)
<u>179</u>	. Stylus
<u>180</u>	. Light pen for CRT display
<u>181</u>	.. CRT having tracking capability
<u>182</u>	. Light pen for fluid matrix display panel
<u>183</u>	. Light pen for controlling plural light-emitting display elements (e.g., LED, lamps)
<u>184</u>	. Mechanical control (e.g., rotatable knob, slider)
<u>501</u>	COMPUTER GRAPHIC PROCESSING SYSTEM
<u>502</u>	. Plural graphics processors
<u>503</u>	.. Coprocessor (e.g., graphic accelerator)
<u>504</u>	.. Master-slave processors
<u>505</u>	.. Parallel processors (e.g., identical processors)
<u>506</u>	.. Pipeline processors
<u>519</u>	. Integrated circuit (e.g., single chip semiconductor device)
<u>520</u>	. Interface (e.g., controller)
<u>522</u>	. Graphic command processing
<u>530</u>	COMPUTER GRAPHICS DISPLAY MEMORY SYSTEM
<u>531</u>	. Graphic display memory controller
<u>532</u>	.. Plural memory controllers
<u>533</u>	.. Using different access modes
<u>534</u>	.. Memory access timing signals
<u>535</u>	.. Memory arbitration
<u>536</u>	. Plural storage devices
<u>537</u>	.. Data transfer between memories
<u>538</u>	... Data transfer between system memory display memory
<u>539</u>	.. Double buffered
<u>540</u>	.. Interleaved
<u>541</u>	. Shared memory
<u>542</u>	.. Unified memory architecture (e.g., UMA)
<u>543</u>	. Memory allocation
<u>544</u>	. Memory partitioning
<u>545</u>	. Frame buffer
<u>546</u>	.. Multi-format frame buffer
<u>547</u>	.. Memory for storing video data
<u>548</u>	.. Off-screen memory
<u>549</u>	.. Color memory
<u>550</u>	... Multiple planes
<u>551</u>	.. Character memory
<u>552</u>	. Texture memory
<u>553</u>	. Display list memory
<u>554</u>	. Multi-port memory
<u>555</u>	. For storing compressed data
<u>556</u>	. For storing condition code, flag or status
<u>557</u>	. Cache
<u>558</u>	. First in first out (i.e., FIFO)
<u>559</u>	. Register
<u>560</u>	. Row buffer (e.g., line memory)
<u>561</u>	. Logical operations
<u>562</u>	.. Bit block transfer
<u>563</u>	.. Mask data operation
<u>564</u>	. Addressing
<u>565</u>	.. Using memory for storing address information
<u>566</u>	.. Address manipulation
<u>567</u>	... Using decoding
<u>568</u>	... Address translation (e.g., between virtual and physical addresses)
<u>569</u>	.. For 2D coordinate to linear address conversion
<u>570</u>	.. Page mode

<u>571</u>	.. Memory addresses arranged in matrix row and column addresses)
<u>572</u>	.. Address generator
<u>573</u>	... Plural address generators
<u>574</u>	... Read/Write address generator
<u>204</u>	DISPLAY DRIVING CONTROL CIRCUITRY
<u>205</u>	. Physically integral with display elements
<u>206</u>	.. Having common base or substrate
<u>207</u>	. Light detection means (e.g., with photodetector)
<u>690</u>	. Intensity or color driving control (e.g., gray scale)
<u>691</u>	.. Temporal processing (e.g., pulse width variation over time
<u>692</u>	... Binary weighted
<u>693</u>	... Non-binary weighted
<u>694</u>	.. Spatial processing (e.g., patterns or subpixel configuration)
<u>695</u>	... Subpixels have different shapes
<u>696</u>	... Changing of subpixel location over time
<u>697</u>	.. Including optical means
<u>698</u>	. Adjusting display pixel size or pixels per given area (i.e., resolution)
<u>699</u>	.. Controller automatically senses monitor resolution
<u>208</u>	. Waveform generator coupled to display elements
<u>209</u>	.. Field period polarity reversal
<u>210</u>	.. Having three or more voltage levels
<u>211</u>	. Display power source
<u>212</u>	.. Regulating means
<u>213</u>	.. Synchronizing means
<u>214</u>	. Controlling the condition of display elements
<u>215</u>	.. Including priming means
<u>1.1</u>	PLURAL DISPLAY SYSTEMS
<u>1.2</u>	. Data transmitted or received at surface of display
<u>1.3</u>	. Tiling or modular adjacent displays
<u>2.1</u>	. Remotely located
<u>2.2</u>	.. Presentation of similar images
<u>2.3</u>	.. Wireless connection
<u>3.1</u>	. Diverse systems (e.g., CRT or LCD interface)
<u>3.2</u>	.. Frame, field or scan rate conversion
<u>3.3</u>	.. Number of pixels per row or column conversion (i.e., resolution conversion)
<u>3.4</u>	... Controller automatically senses monitor resolution
<u>4</u>	SINGLE DISPLAY SYSTEM HAVING STACKED SUPERIMPOSED DISPLAY DEVICES (E.G., TANDEM)
<u>5</u>	. Diverse display devices
<u>6</u>	. Three-dimensional arrays
<u>7</u>	IMAGE SUPERPOSITION BY OPTICAL MEANS (E.G., HEADS-UP DISPLAY)
<u>8</u>	. Operator body-mounted heads-up display (e.g., helmet mounted display)
<u>9</u>	. Plural image superposition
<u>10</u>	DATA RESPONSIVE CRT DISPLAY CONTROL
<u>11</u>	. CRT provides display control
<u>12</u>	. Data responsive deflection and intensity control
<u>13</u>	. Data responsive deflection control
<u>14</u>	.. X and Y axis deflection control
<u>15</u>	.. Curvilinear deflection control (e.g., lissajous)
<u>16</u>	.. Stroke or vector
<u>17</u>	... Strokes for forming characters
<u>18</u>	... Up/down counter
<u>19</u>	.. Impedance Array
<u>20</u>	. Data responsive intensity control
<u>21</u>	.. Magnetic element array
<u>22</u>	. Color display
<u>23</u>	. Graphic and alphanumeric display
<u>24</u>	. Graphic display

<u>25</u>	. Alphanumeric display
<u>26</u>	.. Character generator
<u>27</u>	. Combined with storage means
<u>28</u>	.. Addressing
<u>29</u>	. Delay line
<u>30</u>	PLURAL PHYSICAL DISPLAY ELEMENT CONTROL SYSTEM (E.G., NON-CRT)
<u>31</u>	. Physically movable array
<u>32</u>	. Optical means interposed in viewing path (e.g., filters, lens, etc.)
<u>33</u>	. Segmented display elements
<u>34</u>	.. Seven segment display
<u>35</u>	.. Bar graph
<u>36</u>	... Electroluminescent display elements
<u>37</u>	... Gas discharge display segments (e.g., plasma)
<u>38</u>	... Liquid crystal display segments
<u>39</u>	... Light-emitting diode segments (LEDS)
<u>40</u>	... Plural (e.g., stacked, adjacent)
<u>41</u>	.. Fluid light-emitting display elements (e.g., gas, plasma)
<u>42</u>	... Controlling circuitry
<u>43</u>	.. Mask or electrode shape
<u>44</u>	.. Solid light-emitting display elements
<u>45</u>	... Electroluminescent
<u>46</u>	... Light-emitting diodes
<u>47</u>	.. Fluorescent elements
<u>48</u>	.. Light-controlling display elements
<u>49</u>	... Electrochromic elements
<u>50</u>	... Liquid crystal elements
<u>51</u>	.... Display element selection circuitry
<u>52</u>	.... Power supply generating circuitry
<u>53</u>	.... Specific waveform (e.g., square waveforms, sinusoidal)
<u>54</u>	..... Field period polarity reversal
<u>55</u>	. Display elements arranged in matrix (e.g., rows and columns)
<u>56</u>	.. Image shifting means (i.e., traveling message)
<u>57</u>	... Having endless belt or tape reader
<u>58</u>	.. Crosstalk elimination
<u>59</u>	.. Matrix for conveying alphanumeric data
<u>60</u>	.. Fluid light emitter (e.g., gas, liquid, or plasma)
<u>61</u>	... Shifting means
<u>62</u>	.... Specified plasma coupling path
<u>63</u>	... Intensity control
<u>64</u>	... Liquid light emitter
<u>65</u>	... Phosphor excited by fluid response
<u>66</u>	... Particular discharge path
<u>67</u>	... More than two electrodes per element
<u>68</u>	... Means for combining selective and sustain signals
<u>69</u>	.... Resistor-diode arrangement
<u>70</u>	..... Including transformer
<u>71</u>	... Electrode insulated from fluid medium
<u>72</u>	... Color
<u>73</u>	.. Incandescent
<u>74.1</u>	.. Cathodoluminescent type
<u>75.1</u>	... Vacuum fluorescent
<u>75.2</u>	... Field emissive (e.g., FED, Spindt, microtip, etc.)
<u>76</u>	.. Electroluminescent
<u>77</u>	... Brightness or intensity control
<u>78</u>	... Having compensating pulse
<u>79</u>	... Field period polarity reversal
<u>80</u>	... Driving means integral to substrate
<u>81</u>	... Optical addressing (e.g., photodetection)

<u>82</u>	.. Solid body light emitter (e.g., LED)
<u>83</u>	... Color
<u>84</u>	.. Light-controlling display elements
<u>85</u>	... Electroscopic (e.g., movable electrodes or electrostatic elements)
<u>86</u>	... Magneto-optic
<u>87</u>	... Liquid crystal display elements (LCD)
<u>88</u>	.... Color
<u>89</u>	.... Gray scale capability (e.g., halftone)
<u>90</u>	.... Control means at each display element
<u>91</u>	..... Diode or varistor
<u>92</u>	..... Thin film transistor (TFT)
<u>93</u>	..... Redundancy (e.g., plural control elements or electrodes)
<u>94</u>	... Waveform generation
<u>95</u>	..... Three or more voltages
<u>96</u>	..... Field period polarity reversal
<u>97</u>	..... Ferroelectric liquid crystal elements
<u>98</u>	... Specific display element control means (e.g., latches, memories, logic)
<u>99</u>	..... Particular timing circuit
<u>100</u>	..... Particular row or column control (e.g., shift register)
<u>101</u>	... Data signal compensation in response to temperature
<u>102</u>	... Backlight control
<u>103</u>	... Grouped electrodes (e.g., matrix partitioned into sections)
<u>104</u>	... Input/output liquid crystal display panel
<u>105</u>	... Electrochromic elements
<u>106</u>	... Thermochromic elements
<u>107</u>	... Particle suspensions (e.g., electrophoretic)
<u>108</u>	.. Plural mechanically movable display elements
<u>109</u>	... Having shutters
<u>110</u>	... With motor or rotor driver means
<u>111</u>	... With a permanent magnet placed on movable display elements

CROSS-REFERENCE ART COLLECTIONS

<u>901</u>	ELECTRONIC BOOK WITH DISPLAY
<u>902</u>	MENU DISPLAY
<u>903</u>	MODULAR DISPLAY
<u>904</u>	DISPLAY WITH FAIL/SAFE TESTING FEATURE
<u>905</u>	DISPLAY DEVICE WITH HOUSING STRUCTURE
<u>947</u>	FONT CHARACTER EDGE PROCESSING
<u>948</u>	ALTERATION OF STORED FONTS TO MAINTAIN FEATURE CONSISTENCY
	THROUGHOUT SCALED FONT
<u>949</u>	ANIMATION PROCESSING METHOD
<u>950</u>	. Sprite processing
<u>951</u>	.. Key frame processing
<u>952</u>	. Simulation
<u>953</u>	. Geometric processing
<u>954</u>	.. Quaternions
<u>955</u>	. Morphing
<u>956</u>	. Language driven animation
<u>957</u>	.. Actor
<u>958</u>	. Collision avoidance
<u>959</u>	. Object path adherence
<u>960</u>	. Iterative display of preconfigured images
<u>961</u>	OPERATOR INTERFACE WITH VISUAL STRUCTURE OR FUNCTION DICTATED
	BY INTENDED USE
<u>962</u>	. Operator interface for marketing or sales
<u>963</u>	. Calendar or scheduling

- 964 . CAD or CAM (e.g., interactive design tools)
- 965 . For process control and configuration
- 966 .. Computer process (e.g., operation of computer)
- 967 ... Visual or iconic programming
- 968 ... Interface for database querying and retrieval
- 969 .. Network layout and operation interface
- 970 .. Instrumentation and component modelling (e.g., interactive control panel)
- 970.1 . Amusement or marital aid interface

- 971 **COOPERATIVE DECISION SUPPORT SYSTEMS FOR GROUPS OF USERS**
- 972 **INSERTED REAL-TIME VIDEO IN OPERATOR INTERFACE**
- 973 **SCROLL TOOL (E.G., WINDOW SCROLL BARS)**
- 974 **SLIDER CONTROLS AS ON-SCREEN OBJECTS IN OPERATOR INTERFACE**
- 975 **POP-UP DIALOG BOX FOR ENTRY**
- 976 **3-D ICONS**
- 977 **DYNAMIC ICON (E.G., ANIMATED OR LIVE ACTION)**
- 978 **AUDIO INTERACTION AS PART OF AN OPERATOR INTERFACE**

FOREIGN ART COLLECTIONS

FOR000 **CLASS-RELATED FOREIGN DOCUMENTS**

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

- PLURAL PHYSICAL DISPLAY ELEMENT CONTROL SYSTEM (E.G., NON-CRT) (345/30)**
- FOR100 . Display elements arranged in matrix (e.g., rows and columns) (345/55)
- FOR100 .. Cathodoluminescent type (345/74)
- FOR101 ... Vacuum fluorescent (345/75)
- FOR102 .. Memory (345/521)
- FOR103 . Data manipulation (e.g., masking, interpolation) (345/523)
- FOR104 .. Logical operation (345/524)
- FOR105 .. Bit block transfer (345/525)
- FOR106 . Data transfer between graphic system components (345/526)
- FOR107 **DISPLAY STORAGE DEVICE (345/507)**
- FOR108 . Color memory (345/186)
- FOR109 .. Multiple planes (345/510)
- FOR110 ... Addressing with priority (345/188)
- FOR111 . Bit map or graphic memory (345/509)
- FOR112 .. Addressing (345/515)

- FOR113 .. Mask data operation (345/191)
- FOR114 . Character memory (345/192)
- FOR115 .. Addressing (345/193)
- FOR116 .. Character generator (345/194)
- FOR117 ... Multiple fonts (345/195)
- FOR118 . Row buffer (e.g., line memory) (345/196)
- FOR119 . Register (345/513)
- FOR120 .. Shift register (345/197)
- FOR121 ... With routing logic (345/198)
- FOR122 . Color look-up-table (e.g., palette) (345/199)
- FOR123 . Addressing circuuity (345/516)
- FOR124 .. Memory addresses arranged in matrix (e.g., row and column addresses) (345/517)
- FOR125 . Plural storage devices (345/508)
- FOR126 .. Data transfer between memories (345/511)
- FOR127 . Shared memory (345/512)
- FOR128 . Condition code, flag, or status (345/514)
- FOR129 . Multiple port access (345/518)
- FOR130 . Data compression or compaction (345/202)
- FOR131 . Significant data assignment in storage device (345/203)
- FOR132 **PLURAL DISPLAY SYSTEMS (345/1)**
- FOR133 . Remotely located (345/2)
- FOR134 . Diverse systems (e.g., CRT/LCD interface) (345/3)
- FOR135 **DISPLAY ATTRIBUTE CONTROLLER (345/112)**
- FOR136 . Particular overlay (e.g., superimposing feature) (345/113)
- FOR137 .. Foreground and background (345/114)
- FOR138 . Simultaneous diverse images (345/115)
- FOR139 .. Character and graphical display (345/116)
- FOR140 . Specified image of abnormal condition (345/117)
- FOR141 . Having image confined to designated region (e.g., image clipping) (345/118)

FOR142 . Image movement or position control (e.g., panning) (345/121)

FOR143 .. Scrolling (345/123)

FOR144 ... Alphanumeric (345/124)

FOR145 ... Graphical (345/125)

FOR146 .. Rotation (345/126)

FOR147 . Image size control (345/127)

FOR148 .. Alphanumeric (345/128)

FOR149 ... Reduction (345/129)

FOR150 ... Enlargement (345/130)

FOR151 .. Graphical (345/131)

FOR152 . Defined resolution (e.g., EGA, VGA) (345/132)

FOR153 . Graphic display (345/133)

FOR154 .. Waveform display (e.g., oscilloscope type) (345/134)

FOR155 .. Vector display (345/135)

FOR156 .. With image smoothing control (e.g., anti-aliasing) (345/136)

FOR157 ... Convolution technique (345/137)

FOR158 .. Averaging technique (345/138)

FOR159 .. Perspective (345/139)

FOR160 .. Bar graph (345/140)

FOR161 . Character display (345/141)

FOR162 .. Calligraphic (345/142)

COMPUTER GRAPHICS PROCESSING (345/418)

. Character generating (345/467)

FOR163 .. Character border (345/144)

CURSOR MANIPULATION (345/145)

FOR165 . Menu selection (345/146)

DISPLAY ATTRIBUTE CONTROLLER (345/112)

FOR166 . Intensity control (e.g., gray scale) (345/147)

FOR167 .. Temporal processing (e.g., pulse width variation over time) (345/148)

FOR168 .. Spatial processing (e.g., patterns or subpixel configurations) (345/149)

- FOR169 . Selectable color attributes (345/150)
- FOR170 .. Including optical means (345/151)
- FOR171 .. Designated subpixel arrangement (345/152)
- FOR172 .. Color bit data modification or conversion (345/153)
- FOR173 ... Format change (e.g., NTSC to RGB, RGB to composite, or XYZ to RGB) (345/154)
- FOR174 ... Change in number of bits for a designated color (e.g., 4 bits to 8 bits, 8 bits to 4 bits) (345/155)
- COMPUTER GRAPHICS PROCESSING (345/418)**
- FOR175 . Synchronization of diverse media (345/302)
- FOR176 **OPERATOR INTERFACE (345/326)**
- FOR177 . Interaction in a television environment (345/327)
- FOR178 .. For video segment editing or sequencing (345/328)
- FOR179 . For plural users or sites (345/329)
- FOR180 .. Computer conferencing (345/330)
- FOR181 .. Computer supported cooperative work (345/331)
- FOR182 ... Group window (345/332)
- FOR183 . Interface customization or edition (345/333)
- FOR184 .. Graphical appearance (345/334)
- FOR185 .. Link between object and task or function (e.g., client/server) (345/335)
- FOR186 . Having on-line help (345/336)
- FOR187 .. Adaptive to user skill level (345/337)
- FOR188 .. Context sensitive (345/338)
- FOR189 . On-screen workspace or object (345/339)
- FOR190 .. Window (345/340)
- FOR191 ... Window scrolled to needed portion (345/341)
- FOR192 ... Layout modification (e.g., move or resize) (345/342)
- FOR193 ... Window differentiation (345/343)
- FOR194 Priority (345/344)
- FOR195 Viewing lower priority window (345/345)
- FOR196 ... Interwindow link or communication (345/346)

- FOR197 .. Pop-up control (e.g., message or dialog box) (345/347)
- FOR198 .. Icon (345/348)
- FOR199 ... Metaphoric icon object (345/349)
- FOR200 Indexed book or notebook (345/350)
- FOR201 Office layout (e.g., filing cabinet, desk) (345/351)
- FOR202 .. Menu (345/352)
- FOR203 ... Sub-menu structure (345/353)
- FOR204 ... Using button array (345/354)
- FOR205 .. Interface represented by 3D space (345/355)
- FOR206 .. Hierarchy or network structure (345/356)
- FOR207 ... Navigation within structure (345/357)
- FOR208 . Gestured-based (345/358)

COMPUTER GRAPHICS PROCESSING (345/418)

- . Three-dimension (345/419)
- FOR209 .. Mapping image onto surface of 3D object (345/425)
- FOR210 . Surface detail/characteristic (345/429)
- FOR211 .. Texture (345/430)
- FOR212 .. Color (345/431)
- FOR213 .. Intensity (345/432)
- FOR214 . Object processing (345/433)
- FOR215 .. Clipping (345/434)
- FOR216 .. Merge/overlay (345/435)
- FOR217 .. Affine (345/436)
- FOR218 .. Rotation (345/437)
- FOR219 .. Translation (345/438)
- FOR220 .. Sealing (345/439)

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L Number	Hits	Search Text	DB	Time stamp
1	350	"ATI Technologies"	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 12:32
2	0	"ATI Technologies" and "single video card"	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 12:27
3	5	"ATI Technologies" and (video adj card)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 12:27
4	140	(monitor or display) near (graphics adj processor)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 12:40
5	0	((multiple or plural) adj (monitors or displays)) near (graphics adj processor)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 13:48
6	16704	709/\$.ccls.	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 13:48
9	0	(709/\$.ccls. and (port near6 (ip same address))) and (plural adj devices)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 13:50
7	570	709/\$.ccls. and (port near6 (ip same address))	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 13:58
10	405	(709/\$.ccls. and (port near6 (ip same address))) and (displays or monitors)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 14:20
11	133	709/\$.ccls. and (port near6 (ip same address))) and ((plural or multiple or several) near6 (devices or displays or monitors or screens))	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 14:30
13	6	((709/\$.ccls. and (port near6 (ip same address))) and ((plural or multiple or several) near6 (devices or displays or monitors or screens))) and (display? near control)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 14:31

L Number	Hits	Search Text	DB	Time stamp
1	350	"ATI Technologies"	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 12:32
2	0	"ATI Technologies" and "single video card"	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 12:27
3	5	"ATI Technologies" and (video adj card)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 12:27
4	140	(monitor or display) near (graphics adj processor)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 12:40
5	0	((multiple or plural) adj (monitors or displays)) near (graphics adj processor)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 13:48
6	16704	709/\$.ccls.	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 13:48
9	0	(709/\$.ccls. and (port near6 (ip same address))) and (plural adj devices)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 13:50
7	570	709/\$.ccls. and (port near6 (ip same address))	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 13:58
10	405	(709/\$.ccls. and (port near6 (ip same address))) and (displays or monitors)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 14:20
11	133	(709/\$.ccls. and (port near6 (ip same address))) and ((plural or multiple or several) near6 (devices or displays or monitors or screens))	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 14:30
13	6	((709/\$.ccls. and (port near6 (ip same address))) and ((plural or multiple or several) near6 (devices or displays or monitors or screens))) and (display? near control)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/22 14:31
-	115	345/760	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 15:20
-	353	345/733	USPAT; EPO; JPO; DERWENT; USOCR	2002/12/16 09:38

-	39	345/740	USPAT; EPO; JPO; DERWENT; USOCR	2002/12/16 09:38
-	86	345/771	USPAT; EPO; JPO; DERWENT; USOCR	2002/12/16 09:38
-	228	345/1.1	USPAT; EPO; JPO; DERWENT; USOCR	2002/12/16 09:38
-	135	345/2.1	USPAT; EPO; JPO; DERWENT; USOCR	2002/12/16 09:39
-	3253	709/203	USPAT; EPO; JPO; DERWENT; USOCR	2002/12/16 09:39
-	864	345/760 or 345/733 or 345/740 or 345/771 or 345/1.1 or 345/2.1	USPAT; EPO; JPO; DERWENT; USOCR	2002/12/16 09:40
-	809	(345/760 or 345/733 or 345/740 or 345/771 or 345/1.1 or 345/2.1) and displays	USPAT; EPO; JPO; DERWENT; USOCR	2002/12/16 09:41
-	331	((345/760 or 345/733 or 345/740 or 345/771 or 345/1.1 or 345/2.1) and displays) and (internet or web)	USPAT; EPO; JPO; DERWENT; USOCR	2002/12/16 09:42
-	301	((((345/760 or 345/733 or 345/740 or 345/771 or 345/1.1 or 345/2.1) and displays) and (internet or web)) and control	USPAT; EPO; JPO; DERWENT; USOCR	2002/12/16 09:42
-	237	(((((345/760 or 345/733 or 345/740 or 345/771 or 345/1.1 or 345/2.1) and displays) and (internet or web)) and control) and server	USPAT; EPO; JPO; DERWENT; USOCR	2002/12/16 09:51
-	41	(((((345/760 or 345/733 or 345/740 or 345/771 or 345/1.1 or 345/2.1) and displays) and (internet or web)) and control) and server) and touch	USPAT; EPO; JPO; DERWENT; USOCR	2002/12/16 09:51
-	3	((((((345/760 or 345/733 or 345/740 or 345/771 or 345/1.1 or 345/2.1) and displays) and (internet or web)) and control) and server) and touch) and kiosk	USPAT; EPO; JPO; DERWENT; USOCR	2002/12/16 09:54
-	1	((((((345/760 or 345/733 or 345/740 or 345/771 or 345/1.1 or 345/2.1) and displays) and (internet or web)) and control) and server) and touch) and fuel	USPAT; EPO; JPO; DERWENT; USOCR	2002/12/16 09:58

-	37	709/203 and fuel	USPAT; EPO; JPO; DERWENT; USOCR	2002/12/16 10:22
-	1	(709/203 and fuel) and (fuel adj dispenser)	USPAT; EPO; JPO; DERWENT; USOCR	2002/12/16 11:36
-	73	(internet or web) and (fuel adj dispenser)	USPAT; EPO; JPO; DERWENT; USOCR	2002/12/16 11:48
-	49853	(internet or web) and (gas or gasoline or gazoline)	USPAT; EPO; JPO; DERWENT; USOCR	2002/12/16 11:49
-	306	unique adj ip adj address	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/19 12:22
-	0	(unique adj port adj address) and (unique adj ip adj address)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/19 12:05
-	20	unique adj port adj address	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/19 12:05
-	283	(unique adj ip adj address) and internet	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/19 12:22
-	23	((unique adj ip adj address) and internet) and (port adj address)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/19 17:01
-	19	"5721906"	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/19 17:01
-	52365	345/\$.ccls.	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 15:20
-	0	(345/\$.ccls. and (fuel or gas or gaz or gosoline or gazoline) adj (dispenser or dispensor or pump or station)) and (static adj addressing)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 15:22
-	0	(345/\$.ccls. and (fuel or gas or gaz or gosoline or gazoline) adj (dispenser or dispensor or pump or station)) and (dynamic adj addressing)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 15:23

-	0	(345/\$.ccls. and (fuel or gas or gaz or gasoline or gazoline) adj (dispenser or dispensator or pump or station)) and (port adj addressing)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 15:23
-	0	(345/\$.ccls. and (fuel or gas or gaz or gasoline or gazoline) adj (dispenser or dispensator or pump or station)) and (ip adj addressing)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 15:23
-	60	345/\$.ccls. and (fuel or gas or gaz or gasoline or gazoline) adj (dispenser or dispensator or pump or station)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 16:22
-	0	(345/\$.ccls. and (fuel or gas or gaz or gasoline or gazoline) adj (dispenser or dispensator or pump or station)) not (345/\$.ccls. and (fuel or gas or gaz or gasoline or gazoline) adj (dispenser or dispensator or pump or station))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/21 15:39
-	45	345/\$.ccls. and (fuel or gas or gaz or gasoline or gazoline) adj (dispenser or dispensator or pump or station)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/21 15:39
-	27666	709/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/21 15:40
-	31	709/\$.ccls. and ((fuel or gas or gaz or gasoline or gazoline) adj (dispenser or dispensator or pump))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/21 15:43
-	52	345/\$.ccls. and (fuel or gas or gaz or gasoline or gazoline) adj (dispenser or dispensator or pump or station)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 16:23
-	7	(345/\$.ccls. and (fuel or gas or gaz or gasoline or gazoline) adj (dispenser or dispensator or pump or station)) not (345/\$.ccls. and (fuel or gas or gaz or gasoline or gazoline) adj (dispenser or dispensator or pump or station))	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 16:27

-	79	(709/\$.ccls. and ((fuel or gas or gaz or gasoline or gazoline) adj (dispenser or dispensior or pump))) or (345/\$.ccls. and (fuel or gas or gaz or gasoline or gazoline) adj (dispenser or dispenser or pump or station)) or ((345/\$.ccls. and (fuel or gas or gaz or gasoline or gazoline) adj (dispenser or dispensior or pump or station)) not (345/\$.ccls. and (fuel or gas or gaz or gosoline or gazoline) adj (dispenser or dispensior or pump or station))) or (345/\$.ccls. and (fuel or gas or gaz or gosoline or gazoline) adj (dispenser or dispensior or pump or station)) or (345/\$.ccls. and (fuel or gas or gaz or gosoline or gazoline) adj (dispenser or dispensior or pump or station))	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 16:28
-	20	((709/\$.ccls. and ((fuel or gas or gaz or gasoline or gazoline) adj (dispenser or dispensior or pump))) or (345/\$.ccls. and (fuel or gas or gaz or gasoline or gazoline) adj (dispenser or dispenser or pump or station)) or ((345/\$.ccls. and (fuel or gas or gaz or gasoline or gazoline) adj (dispenser or dispensior or pump or station)) not (345/\$.ccls. and (fuel or gas or gaz or gosoline or gazoline) adj (dispenser or dispensior or pump or station))) or (345/\$.ccls. and (fuel or gas or gaz or gosoline or gazoline) adj (dispenser or dispensior or pump or station)) or (345/\$.ccls. and (fuel or gas or gaz or gosoline or gazoline) adj (dispenser or dispensior or pump or station))) and ((dynamic adj addressing) or (static addressing))	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 16:36
-	31	709/\$.ccls. and (dynamic adj addressing)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 17:20
-	0	(709/\$.ccls. and (dynamic adj addressing)) and (display adj controller)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 17:21
-	45	kiosk and (display adj controller)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 17:28
-	1303030	"45" and ((multiple or plural) adj displays)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 17:23

-	507	"45" and (multiple adj displays)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 17:23
-	2	(kiosk and (display adj controller)) and ((multiple or plural) adj displays)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 17:24
-	5690	((multiple or plural) adj (displays or screens)) and ((display or screen adj controller))	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 17:34
-	0	((multiple or plural) adj (displays or screens)) and ((display or screen adj controller))) and kiosk	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 17:35
-	90	((multiple or plural) adj (displays or screens)) and ((display or screen adj controller))) and fuel	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 17:44
-	5690	((multiple or plural) adj (displays or screens)) and ((display or screen adj controller))) and ((single display controller) or (single screen controller))	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 18:01
-	8	((multiple or plural) adj (displays or screens)) and ((display or screen adj controller))) and ("single display controller" or "single screen controller")	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 19:01
-	28	5488385.URPN.	USPAT	2003/08/21 18:26
-	16	5038301.URPN.	USPAT	2003/08/21 18:50
-	1	duet and virge	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 19:01
-	19	"5038301"	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 19:17
-	1715	kiosk and displays	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 19:30
-	28	(kiosk and displays) and ((multiple or plural) adj (screens or displays))	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 20:14
-	463	vga adj controller	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 20:16

-	16	(vga adj controller) and (multiple adj displays)	USPAT; EPO; JPO; DERWENT; USOCR	2003/08/21 20:17
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